

**MONTHLY PROGRESS REPORT**  
For month ending March 31<sup>st</sup>, 2017

**CV-97-0206 (D.N.M)**  
**Albuquerque v. Sparton Technology, Inc.**

04/10/2017

***Tasks Completed:***

- A. Groundwater Monitoring Plan  
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- B. Public Involvement Plan  
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- C. Deep Flow Zone System  
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- D. Assessment of Aquifer Restoration
  - Started review and analysis of the monitoring data in preparation of the CY2016 Annual Report.
- E. Offsite-Containment System
  - The system ran 100% of the time and pumped 14,375,043 gallons (an average of 301.7 gpm). There were 0 outages:
  - Collected the monthly influent and effluent samples, and measured the water level in the infiltration gallery.
  - Filed the monthly discharge report with the Office of the State Engineer as required under Permit-RG-69659.
- F. Source Containment System
  - The system ran 99.87% of the time and pumped 2,314,778 gallons (an average of 48.6 gpm). There were two outages:
    - o On 3/6 for 15 minutes due to a Chromium Tank Exchange.
    - o On 3/27 for 48 minutes due to a Chromium Tank Exchange and a gasket leak repair on the Air Stripper.
  - Filed the monthly discharge report with the Office of the State Engineer as required under Permit-RG-73531.
  - Collected the monthly influent and effluent samples from the treatment system.



- Operated the chromium removal unit during the entire month. Continued to route 35 gpm of the pumped water through the unit and blend it with the remainder of the pumped water to meet the New Mexico Water Quality Control Commission chromium standard of 0.050 mg/L in the effluent discharged into the ponds.
  - Replaced the first tank of the chromium removal unit on March 6<sup>th</sup> and March 27<sup>th</sup>.
  - Replaced the pretreatment filter for the Chromium Exchange Tanks on March 27<sup>th</sup>.
  - Collected chromium samples of (a) the influent to the building; (b) the effluent from the second tank; and (c) the effluent from the air-stripper on tank exchange day.
  - The 2016 Air Emissions Report was submitted to the Air Quality Division, Environmental Health Department, of the City of Albuquerque on March 8, 2017.
- G. Other
- NMED questions on Sparton's RCRA Post-Closure Care Renewal Application for the former sump area were addressed.

### ***Tasks Planned:***

#### H. Groundwater Monitoring Plan

- 2Q2017 Ground Water Sampling Plan will be confirmed with SSP&A.
- Sample kits for the 2Q2017 sampling event, including kits for 1,4-Dioxane, will be ordered.

#### I. Public Involvement Plan

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#### J. Deep Flow Zone System

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#### K. Assessment of Aquifer Restoration

- Continue the review and analyses of monitoring data in preparation of the CY2016 Annual Report.

#### L. Offsite-Containment System

- The monthly influent and effluent samples will be collected, and the water level will be measured in the infiltration gallery piezometer.
- The required discharge report will be filed with the Office of the State Engineer.
- The safety cameras and emergency exit light project will begin installation on April 3<sup>rd</sup>.

#### M. Source Containment System

- The monthly influent and effluent samples will be collected.



- The required discharge report will be filed with the Office of the State Engineer; and
- Tank Exchange chromium sampling of (a) the influent; (b) the effluent from the second tank; and (c) the effluent from the air-stripper will continue.
- The first tank of the Chromium Removal unit will be replaced on April 17<sup>th</sup>.
- The pretreatment filter will be replaced on April 10<sup>th</sup> and April 24<sup>th</sup>.
  - o If flow continues to be reduced after the pretreatment filter has been changed the pipes will be cleaned thoroughly of all buildup.
- The safety cameras and emergency exit light project will begin installation on April 3<sup>rd</sup>.
- The Cat5 data cable to provide internet to CW-2 will be installed. CenturyLink will be notified that the cable is ran and they are able to complete the connection. Internet connection is expected to be established by the end of the month.
- The disposal location for Pond 2 will be moved from the Southwest corner to the Northwest corner of the lot on April 3<sup>rd</sup>.

N. Other

- Work on preparing the renewal application for Discharge Permit DP-1184, which expires on October 18, 2017, will be initiated.

O. Problems Encountered or Anticipated:

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By:

Dillon Cottingham, EI  
Engineering Technician for Sparton

Charles Easterling, PE  
Project Coordinator for Sparton.

Cc: Mr. Chuck Hendrickson (EPA: 214-665-7263)  
Mr. Dave Cobrain (NMED: 505-476-6030)



Dillon Cottingham  
 6100 Seagull Street NE  
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April 10<sup>th</sup>, 2017

Mr. Charles Palmer  
 Office of State Engineer  
 5550 San Antonio Dr. NE  
 Albuquerque, New Mexico  
 Dist1.meterreadings@state.nm.us

PE: Permit RG-69659, RG-73531T

Below is the meter report for the month of March 2017. A total of 14,375,043 gallons were treated by the air stripper at CW-1 and discharged via underground pipeline to the infiltration Gallery located in the Calabacillas Arroyo. A total of 2,314,778 gallons were treated by the air stripper at CW-2 and discharged into rapid infiltration pond 2 located northwest of the CW-2 Stripper building.

Date	CW-1		CW-2	
	Meter Reading	Discharge	Meter Reading	Discharge
01/03/2017	530,292,100		73,153,900	
02/01/2017	543,089,000	12,796,900	75,242,800	2,088,900
02/13/2017	547,741,600	4,652,600	75,964,600	721,800
02/13/2017	0	<b>New Meter</b>	0	<b>New Meter</b>
03/01/2017	6,724,145	11,376,745	1,090,874	1,812,674
04/03/2017	21,099,188	14,375,043	3,405,652	2,314,778
<b>Total</b>		38,548,688		6,216,352

Thank You,  
 Sincerely,

Dillon Cottingham, EI

cc: Charles M. Easterling, PE

25/40

Sparton Technology Inc, CW-1 Operation and Maintenance Log

MONTH: 3		AIR STRIPPERS										AQUA-MAG			MOTORS		PZ-G Hr/D Level (ft)	Tech initials
YEAR: 2017		System Status: On/Off	Stripper Alarms	Blower Pressure (H <sub>2</sub> O)	PRV Inlet Pressure (psi)	PRV Outlet Pressure (psi)	Water Meter Accumulation	Pump Rate (sec/100gal)	Discharge Rate (min/in)	Chemical Tank Volume (gal)	Consumption (gal/day)	Stock (barrels)	Blower Motor Temperature °	Discharge Motor Temperature °				
1 <sup>st</sup>	7:10	ON	NO	26.0	36.0	18.5	6,724,145	302.2	1/8 inch	450	21.5	4 3/4						
13 <sup>th</sup>	9:15	ON	NO	25.5	36.0	19.0	11,972,364	301	1/8 inch	204	20.5	4 1/4	91.8	118 <sup>R</sup>		C.C.		
20 <sup>th</sup>	10:40	ON	NO	25	36.0	18.2	<del>336,977</del> 3		1/8 inch	64	20	3 1/2	100.2	99 <sup>NR</sup>		C.C.		
							15,051,728	305					131 <sup>R</sup>					
22 <sup>nd</sup>	7:46	ON	NO	25	37.0	18.5	15,858,928	541	1/8 inch	410	20	3 1/2	95.6	99 <sup>R</sup>		C.L		
27 <sup>th</sup>	10:49	ON	NO	25	37.0	18.5	18,096,410	324	1/8 inch	296	22.8	3 1/2	94.0	133 <sup>R</sup>		C.C.		
3 <sup>rd</sup>	9:24	ON	NO	25	37.5	19.0	21,099,188	307.7	1/8 inch	151	20.7	3 1/2	91.5	120.2 <sup>R</sup>	23.05	C.C.		

Discharge=6000/(Sec/100gal)=gpm

(Gallons between readings \* 24 Hours)/(Hours between readings)=Chemical Consumption=20 gallons/day

(Gallons needed to fill tank \* 7.6 gallon Aqua Mag)/(100 gallon solution)=Gallons of Aqua Mag needed

Aqua Mag Top Off			
Date	Time	Gallons of A-M	Inches of A-M
20 <sup>th</sup>	10:40	29.3	17

1 inch = 1.71875 gallons of Aqua Mag

Collected Samples		
Type	Date	Time
Monthly Metals		

ALARMS	
A-1	High Sump
A-2	Air stripper High Sump
A-3	Gallery High
A-4	Pump Off
A-5	Blower Pressure Low



### Sparton Technology Inc, CW-2 Operation and Maintenance Log

MONTH: 3		AIR STRIPPERS															INFILTRATION			AQUA-MAG			MOTORS		Tech Initials
YEAR: 2017		System Status: On/Off	Stripper Alarms	Blower Pressure (H <sub>2</sub> O)	PRV Inlet Pressure (psi)	PRV Outlet Pressure (psi)	Water Meter Accumulation	Pump Flow Rate (gpm)	Discharge Rate (min/in)	Chromium Tank Flow Rate (gpm)	Pond #2 Accumulation	Pond #3 Accumulation	Chemical Tank Volume (gal)	Consumption (gal/day)	Stock barrels	Blower Motor Temperature °F	Discharge Motor Temperature °F								
1 <sup>st</sup>	6:38	ON	NO	25.0	34.0	32.5	1,090,894	50.6	1/2 in	35.19	1,081,732	175	357	11.0	2 1/2			JD							
6 <sup>th</sup>	8:15	ON	NO	25.0	36.0	33.5	1,449,842	50.6	1/2 in	35.19	1,447,896		295	-	2 1/2			JD							
6 <sup>th</sup>	9:10	ON	NO	25.0	31.0	30.0	1,446,396	50.6	1/2 in	36.02	1,449,896		275	11.2	2 1/2			JD							
13 <sup>th</sup>	8:00	ON	NO	25.0	31.0	30.0	1,946,396	50.6	1/2 in	36.0	1,437,596		216	11.2	2 1/2	90.7	104.7 <sup>NR</sup>	JD							
14 <sup>th</sup>	12:35	ON	NO	25.0	30.0	30.0	2,031,597	50.6	1/2 in	35.78	2,015,308		202	10	2 1/2	96.2	109 <sup>NR</sup>	CC							
20 <sup>th</sup>	10:10	ON	NO	25.0	31.0	30.0	2,451,412	50.6	1/2 in	35.31	2,431,588		139	10.2	2 1/2	90.5	106 <sup>NR</sup>	CC							
22 <sup>nd</sup>	8:30	ON	NO	25.0	32.0	34.0	2,586,342	48.75	1/2 in	35.19	2,565,537		118	10.5	2 1/2	89.2	103.9 <sup>NR</sup>	CC							
27	8:30	ON	NO	25.0	28.0	26.0	2,919,774	50.6	1/2 in	36.02	2,896,331		67	10	2 1/2	89.5	102.6 <sup>NR</sup>	CC							
27	10:00	ON	NO	25.0	32.0	31.0	2,921,937	50.6	1/2 in	35.78	2,898,064		450	-	2 1/2	87.0	90.6 <sup>NR</sup>	CC							
								30.6					375	-	2 1/2										
4-3	8:30	ON	NO	25.0	29.8	25.0	3,405,652	50.6	1/2 in	35.55	3,377,797	175	375	10.7	2 1/2	79.1	97.1 <sup>R</sup>	CC							

Discharge = Accumulation Difference \* 60 / 32 = gpm

(Gallons between readings \* 24 Hours) / (Hours between readings) = Chemical Consumption = 10 gallons/day

(Gallons needed to fill tank \* 4.1 gallon Aqua Mag) / (100 gallon solution) = Gallons of Aqua Mag needed

Chromium Tank Exchange		
Date	Time	Left/Right
3/6/17	9:00	Right
3/27/17	9:00	Left

Aqua Mag Top Off		
Date	Time	Gallons/Inches of Aqua Mag
3-27-17	9:47	15.76 in / 9.1 inch

ALARMS	
A-1	Blow/Well Pit/Aqua-Mag Sump
A-2	Air stripper Sump
A-3	Pond #5
A-4	Pump Off
A-5	Blower Pressure Low

Influent Filter	
Date	Time
3-27-17	8.25

Collected Samples		
Type	Date	Time
Monthly Metals		
Chromium Exchange		
Chromium Exchange		

1 inch = 1.71875 gallons of Aqua Mag

